LT-3300 Series Installation Guide

Caution

Be sure to read the “Warning/Caution Information” on the attached sheet before using the product.

Package Contents

(1) LT Unit (1)

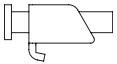
(2) English and Japanese Installation Guides (one of each) <This Guide>

(3) Warning/Caution Information (1)

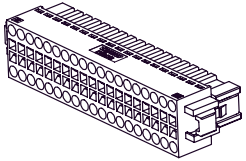
(4) English and Japanese EX Module Hardware Manual *1 (1)

(5) Installation Gasket (1, attached to the LT unit)

(6) Installation Fasteners (Set of 4)

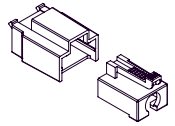


(7) DIO Connector (1)

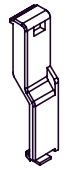


(8) Power Connector (1)

(9) USB Cable Clamp (1 set)
(Holder: 1, Cover: 1)



(10) EX module *1
Hook (only for LT-3300 Series) (1)



This unit has been carefully packed, with special attention to quality. However, should you find anything damaged or missing, please contact your local LT distributor immediately.

About the Manual

For the detailed information on LT3000 series, refer to the following manual.

- LT3000 Series Hardware Manual
- Maintenance/Troubleshooting
- GP-Pro EX Reference Manual “Controlling External I/O”

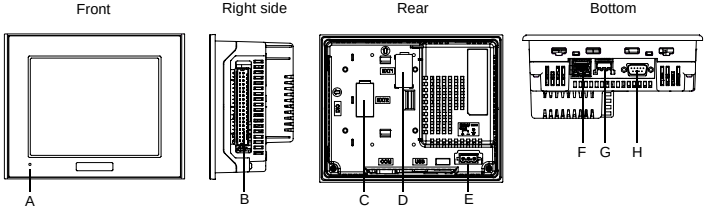
LT3000 Series Hardware Manual can be selected from the help menu of GP-Pro EX or downloaded from Pro-face Home Page.

URL

http://www.pro-face.com/otasuke/

*1 The EX module is an extension I/O module designed for the LT3000 series. To use the EX module, be sure to read the supplied manual.

Part Names and Functions



	Name	Description
A	Status LED	<table><tr><th>Color</th><th>Indicator</th><th>Operation Mode (Drawing)</th><th>Logic execution mode (when logic is enabled)</th></tr><tr><td rowspan="3">Green</td><td rowspan="2">ON</td><td>OFFLINE</td><td>—</td></tr><tr><td>In operation</td><td>RUN</td></tr><tr><td>Flashing</td><td>In operation</td><td>STOP</td></tr><tr><td rowspan="2">Red</td><td>ON</td><td colspan="2">When power is turned on.</td></tr><tr><td>Flashing</td><td>In operation</td><td>Major Error</td></tr><tr><td rowspan="2">Orange</td><td>ON</td><td colspan="2">Backlight burnout</td></tr><tr><td>Flashing</td><td colspan="2">During software startup</td></tr></table>
B	DIO Interface (DIO)	The interface to external I/O equipment
C	AUX Unit Interface/ Expansion Unit (EXT2)	Used to connect additional units (communication function, etc.).
D	EX Module Interface (EXT1)	Used to connect the Pro-face's EX Module
E	Power Plug Connector	—
F	Ethernet Interface (10BASE-T/100BASE-TX)	An RJ-45 type modular jack connector (8-pole) is used.
G	USB Host Interface (USB)	1 port Conforms to USB1.1. (TYPE-A conn.) Power Supply Voltage: DC5V ±5% Output Current: 500mA (at maximum) The maximum communication distance is 5m.
H	Serial Interface (COM1)	D-sub 9-pin plug type connector. Communication method (RS232C/RS422/RS485) is switched via software.

General Specifications

■ Electrical Specifications

Power Supply	Input Voltage	DC24V
	Rated Voltage	DC19.2 to 28.8V
	Allowable Voltage Drop	3ms (max.)
	Power Consumption	27W (max.)
	In-Rush Current	30A (max.)
Voltage Endurance		AC1000V 20mA for 1minute (between charging and FG terminals)
Insulation Resistance		DC500V 10MΩ (min.) (between charging and FG terminals)

■ Environmental Specifications

Physical	Surrounding Operating Temperature	0 to +50°C*1
	Storage Temperature	-20 to +60°C
	Ambient Humidity	10 to 90% RH (Wet bulb temperature: 39°C max. - no condensation.)
	Storage Humidity	10 to 90% RH (Wet bulb temperature: 39°C max. - no condensation.)
	Dust	0.1mg/m^3 and below (non-conductive levels)
	Pollution Degree	For use in Pollution Degree 2 environment

*1 When using in an environment where the temperature becomes or exceeds 40°C for an extended period of time, the screen contrast level may decrease from its original level of brightness.

External Interfaces

IMPORTANT

- The LT series' serial interface is not isolated. When the host (PLC) unit is also not isolated, and to reduce the risk of damaging the RS232C/RS422/RS485 circuit, be sure to connect pin #5 SG (Signal Ground) terminal.

NOTE

- When isolation is necessary, you can use the RS232C isolation unit (CA3-ISO232-01) on COM1.

■ COM1

Recommended Cable Connector	XM2D-0901 <made by OMRON Corp.>
Recommended Jack Screw	XM2Z-0073 <made by OMRON Corp.>
Recommended Cable Cover	XM2S-0913 <made by OMRON Corp.>
Interfit Bracket	#4-40 UNC screws are used.

Pin #	RS232C		RS422/RS485	
	Signal Name	Meaning	Signal Name	Meaning
1	CD	Carrier Detect	RDA	Receive Data A(+)
2	RD(RXD)	Receive Data	RDB	Receive Data B(-)
3	SD(TXD)	Send Data	SDA	Send Data A(+)
4	ER(DTR)	Data Terminal Ready	ERA	Data Terminal Ready A(+)
5	SG	Signal Ground	SG	Signal Ground
6	DR(DSR)	Data Set Ready	CSB	Clear to Send B(-)
7	RS(RTS)	Request to Send	SDB	Send Data B(-)
8	CS(CTS)	Clear to Send	CSA	Clear to Send A(+)
9	CI(RI)/VCC	Called status display/ +5V±5% Output 0.25A*1	ERB	Data Terminal Ready B(-)
Shell	FG	Frame Ground (Common with SG)	FG	Frame Ground (Common with SG)

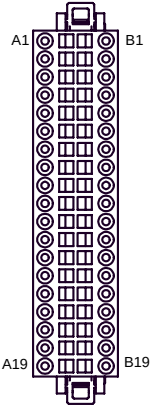
*1 The RI/VCC selection for Pin #9 is switched via software. The VCC output is not protected against overcurrent. To prevent damage or unit malfunctions, use only the rated current.

■ DIO Interface (Connector)

IMPORTANT

- When preparing the cable to connect the wiring, check the pin numbers inscribed on the DIO Connector.

Applicable connector	2-1871940-9 <Tyco Electronics AMP.> CA7-DIOCN5-01 <Pro-face>

Pin Arrangement	Pin No.	Signal Name	Pin No.	Signal Name
 (Cable connection side)	A1	IN1	B1	IN0 (CT0)
	A2	IN3	B2	IN2 (CT1)
	A3	IN5	B3	IN4 (CT2)
	A4	IN7	B4	IN6 (CT3)
	A5	IN9	B5	IN8
	A6	IN11	B6	IN10
	A7	IN13	B7	IN12
	A8	IN15	B8	IN14
	A9	NC	B9	COM
	A10	Sink: NC Source: +24V	B10	Sink: +24V Source: +24V
	A11	Sink: 0V Source: NC	B11	Sink: 0V Source: 0V
	A12	OUT1 (PLS1, PWM1)	B12	OUT0 (PLS0, PWM0)
	A13	OUT3 (PLS3, PWM3)	B13	OUT2 (PLS2, PWM2)
	A14	OUT5	B14	OUT4
	A15	OUT7	B15	OUT6
	A16	OUT9	B16	OUT8
	A17	OUT11	B17	OUT10
	A18	OUT13	B18	OUT12
	A19	OUT15	B19	OUT14

NOTE

- Parenthesized signal names ( ) indicate when Pulse output (PLS∗), PWM output (PWM∗), or Counter Input (CT∗) are used.

◆ Input Specifications

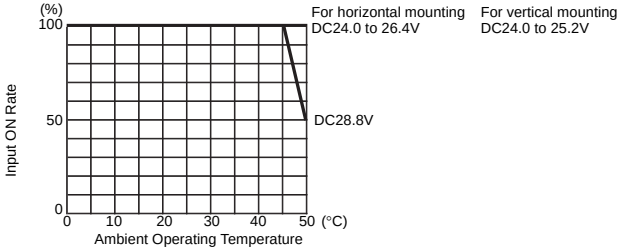
Rated Voltage		DC24V
Maximum Allowable Voltage		DC28.8V
Input Method		Sink/Source Input
Rated Current		6.5mA (DC24V) (IN0, IN2, IN4, IN6) 4.1mA (DC24V) (Other input)
Input Resistance		Approx. 3.7kΩ (IN0, IN2, IN4, IN6) Approx. 5.9kΩ (Other input)
Input Derating		SEE → •*Input Derating (6 page)*
Input Points		16
Common Lines		1
Common Design		16 points/1 common line
Operation Range	ON Voltage	DC19V or more
	OFF Voltage	DC5V or less
Input Delay Time*1	OFF to ON	0.5 to 20ms*2
	ON to OFF	0.5 to 20ms*2
Input Signal Display		No LED indicators
Status Display		None
Isolation Method		Photocoupler Isolation
External Connection		38-pin connector (used with Output section)
External Power Supply		For Signal: DC 24V

*1 In the case of IN0, IN2, IN4, and IN6, the input delay time generates a 5µs delay.
For example, in the case of a 0.5ms-cycle sampling:
5µs (ON to OFF) + 0.5ms (sampling cycle) + 5µs (OFF to ON) = 0.51ms
A minimum 0.51ms-restriction is imposed on the input pulse width.
In the case of IN1, IN3, IN5, and from IN7 to IN15, the input delay time generates a 0.5ms-delay.
For example, in the case of a 0.5ms-cycle sampling:
0.5ms (ON to OFF) + 0.5ms (sampling cycle) + 0.5ms (OFF to ON) = 1.5ms
A minimum 1.5ms-restriction is imposed on the input-pulse width.

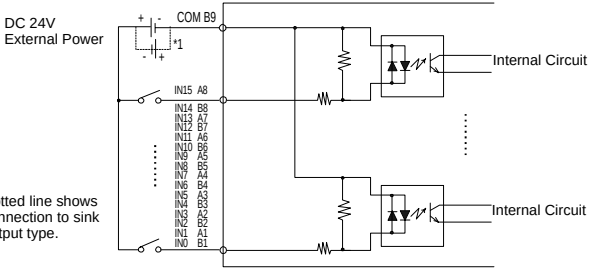
*2 Digital filter can be set at intervals of 0.5 ms.

• Input Derating

Using LT input voltage that exceeds the rated voltage, the input ON voltage, the number of input points or the LT's temperature can effect. Also, the LT's input section could overheat, which could lead to an accident or malfunction. Refer to the following drawing and perform Input Derating within the LT unit's rated range.



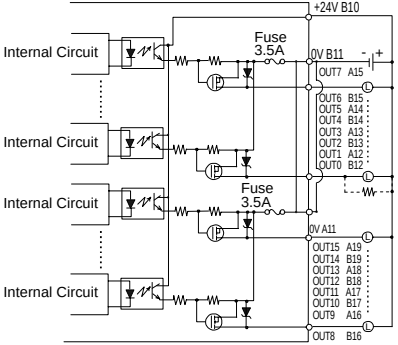
• Input Circuit



◆ Output Specifications

Output Terminal		OUT0 to OUT3	OUT4 to OUT15
Rated Voltage		DC24V	
Allowable Voltage Range		DC20.4V to DC28.8V	
Output Method	LT330∗-∗1-D24-K	Sink Output	
	LT330∗-∗1-D24-C	Source Output	
Maximum Load Voltage		0.2A /point, 1.6A /common	
Min. Load Current		1mA	1mA (Pulse/PWM output unavailable)
Output Voltage Drop		DC0.5V or less	
Output Delay Time	OFF to ON	5μs or less (With output at DC24V, 200mA)	0.5ms or less (With output at DC24V, 200mA)
	ON to OFF	5μs or less (With output at DC24V, 200mA)	0.5ms or less (With output at DC24V, 200mA)
Voltage Leakage (when OFF)		0.1mA or less	
Clamp Voltage		39V ± 1V	
Type of Output		Transistor Output	
Common Lines		2	
Common Design		8 points/1 common line x2	
External Connection		38-pin connector (also used for Input)	
Output Protection Type		Output is unprotected	
Internal Fuse		3.5A, 125V Chip fuse x2 (not replaceable)	
Surge Control Circuit		Zener diode	
Output Points		16	
Output Signal Display		No LED indicators	
Status Display Element		None	
Isolation Method		Photocoupler Isolation	
External Power Supply		For Signal: DC 24V	

• LT330∗-∗1-D24-K Output Circuit (Sink type)

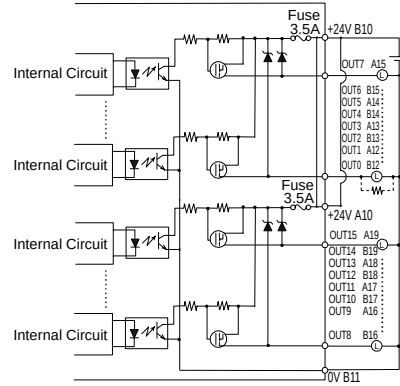


*1 OUT0 to OUT3 only (Example) The output delay time (OFF to ON) is 1.5µs where the output current is DC 24V, 50mA. Install an external dummy resistor to increase the amount of current when more responsiveness is required and the load is light.

NOTE

- Since the output terminals are not electrically protected, an output line might be short-circuited or a connection fault might burn the external devices and LT. Be sure to install an applicable fuse for each output terminal if there should be the risk for the current running over the rating.

• LT330∗-∗1-D24-C Output Circuit (Source type)



*1 OUT0 to OUT3 only (Example) The output delay time (ON to OFF) is 1.5µs where the output current is DC 24V, 50mA. Install an external dummy resistor to increase the amount of current when more responsiveness is required and the load is light.

NOTE

- Since the output terminals are not electrically protected, an output line might be short-circuited or a connection fault might burn the external devices and LT. Be sure to install an applicable fuse for each output terminal if there should be the risk for the current running over the rating.

◆ High-Speed Counter / Pulse Catch Input Specifications

DIO Standard Input/Output is used as a High-Speed Counter Input. The setup is done by the GP-Pro EX. (SEE→) *GP-Pro EX Reference Manual "Controlling External I/O"*

	Counter		Pulse Catch
Input	DC24V Open Collector		DC24V Open Collector
	Single Phase (4 points)	2 Phase (1 point or 2 points)	
Input Points	CT0 (IN0), CT1 (IN2), CT2 (IN4), CT3 (IN6)	CT0 (IN0), CT1 (IN2) (used as pair) CT0: A Phase, CT1: B Phase CT2 (IN4), CT3 (IN6) (used as pair) CT2: A Phase, CT3: B Phase	IN0, IN2, IN4, IN6
High Speed Count Frequency	100Kpps	50Kpps	—
Marker Input (Counter Value Clear)	None	IN3, IN7	—

◆ Pulse/PWM Output Specifications

DIO Standard Input/Output is used as a Pulse Output or PWM Output. The setup is done by the GP-Pro EX. (SEE→) *GP-Pro EX Reference Manual "Controlling External I/O"*

	Pulse Output	PWM Output
Output Points	4 Points	
Output Method	PLS0 to PLS3 (OUT0 to OUT3) defined by user	PWM0 to PWM3 (OUT0 to OUT3) defined by user
Load Voltage	DC24V	
Min. Load Current	1mA	
Max. Output Frequency	Up to 65kHz possible per point (set through software)*1	
Pulse Acceleration/ Deceleration Speed	Available	—
ON Duty	50% ± 10% (at 65kHz)*2	19 to 81% (at 65kHz)*3

*1 A limit of maximum output frequency is imposed on the pulse outputs with regard to the number of channels used and with high-speed counter to be used together.
(SEE→) *GP-Pro EX Reference Manual "Controlling External I/O"* Restrictions

*2 The ON Duty error (10%) will be reduced if the Output frequency is low.

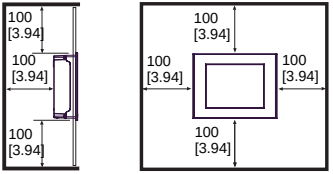
*3 The ON Duty (effective range) will be widened if the Output frequency is low.

Installations

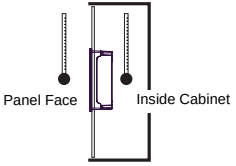
1. Installation Requirements

- For easier maintenance, operation, and improved ventilation, be sure to install the LT at least 100 mm [3.94 in.] away from adjacent structures and other equipment.

Unit:mm[in.]



- Be sure that the surrounding air temperature and the ambient humidity are within their designated ranges. (Surrounding air temperature: 0 to 50°C, Ambient humidity: 10 to 90%RH, Wet bulb temperature: 39°C max.) When installing the LT on the panel of a cabinet or enclosure, "Surrounding air temperature" indicates both the panel face and cabinet or enclosure's internal temperature.

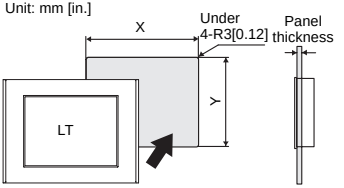


- Be sure that heat from surrounding equipment does not cause the LT to exceed its standard operating temperature.

2. LT Installation

(1) Create a Panel Cut following the dimensions in the table below.

Unit: mm [in.]



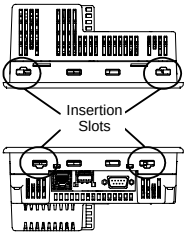
LT	X	Y	Panel thickness
LT-3300 Series	156.0^{+1}_{-0} [$6.14^{+0.04}_{-0}$]	123.5^{+1}_{-0} [$4.86^{+0.04}_{-0}$]	1.6[0.06] to 5.0[0.20]

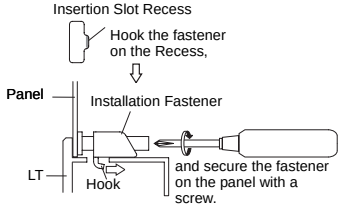
(2) Confirm that the installation gasket is attached to the LT unit and then place the LT unit into the Panel from the front.

IMPORTANT

- It is strongly recommended that you use the installation gasket, since it absorbs vibration in addition to repelling water. For the procedure for replacing the installation gasket, refer to "LT3000 Series Hardware Manual".

(3) The following figures show the four (4) fastener insertion slot locations. Insert each fastener's hook into the slot and tighten it with a screwdriver. Insert the installation fasteners securely into the insertion slot recess.





IMPORTANT

- Tightening the screws with too much force can damage the LT unit's plastic case.
- The necessary torque is 0.5N•m.
- Be sure to insert installation fasteners in the recessed portion of a installation fasteners hole. If the fasteners are not correctly attached, the LT unit may shift or fall out of the panel.

3. Wiring to the DIO Connector

IMPORTANT

- Be sure to remove the DIO Connector from the LT unit prior to starting wiring. Failure to do so may cause an electric shock.

■ Items Required to Wire Connectors

Screwdriver

Recommended type: 1891348-1 <Tyco Electronics AMP.>

If another manufacturer is used, be sure the part has the following dimensions:

point depth: 1.5mm [0.06in.]

point height: 2.4mm [0.09in.]

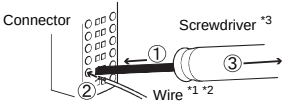
Point shape should be DIN5264A, and meet Security Standard DN EN60900.

Also, the screwdriver's tip should be flat as indicated in order to access the narrow hole of the connector:

(1) Insert the screwdriver into the square-shaped hole.
This will open the wire's round-shaped hole.

(2) Hold the screwdriver and insert the wire into the wire's round-shaped hole.

(3) Take out the screwdriver from the square-shaped hole.
The round-shaped hole will then close, and the wire will be held securely in place.
To remove the wire, re-insert the screwdriver into the square-shaped hole and when the wire's spring clamp releases, pull the wire out.



(4) Insert the wired DIO connector into the DIO I/F of the LT unit.

*1 Wire should be AWG24 to AWG18 thick, and twisted. Applicable wire sizes are UL1015 and UL1007.
*2 Be sure to strip at least 7.0mm [0.28in.] of cover from the wire.
*3 Do not rotate the point of the screwdriver inside the square-shaped opening. It may cause a malfunction.

IMPORTANT

- Be sure to strip only the amount of cover required. If too much cover is removed, the end wires may short against each other, or against an electrode, which can create an electric shock. If not enough cover is removed the wire cannot carry a charge.
- Do not solder the wire itself. This could lead to a bad or poor contact.
- Insert each wire completely into its opening. Failure to do so can lead to a unit malfunction or short, either against wire filaments, or against an electrode.

Wiring

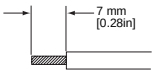
⚠ WARNING

- To avoid an electric shock, prior to connecting the LT unit's power cord terminals to the power terminal block, confirm that the LT unit's power supply is completely turned OFF, via a breaker, or similar unit.
- Any other power level can damage both the LT and the power supply.
- Since there is no power switch on the LT unit, be sure to attach a breaker switch to its power cord.
- When the FG terminal is connected, be sure the wire is grounded.

1. Wiring the DC type power supply cable

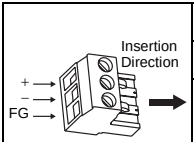
■ Power Cord Specifications

Use copper conductors only.

Power Cord Diameter	0.75 to 2.5mm^2 (18 - 12 AWG)
Conductor Type	Simple or Stranded Wire*1
Conductor Length	

*1 If the Conductor's end (individual) wires are not twisted correctly, the end wires may either short against each other, or against an electrode.

■ Power Connector (Plug) Specifications



+	24V
–	0V
FG	Grounding Terminal connected to the LT chassis

NOTE

- The power connector (plug) is CA5-DCCNM-01 made by Pro-face or MSTB2,5/3-ST-5,08 made by Phoenix Contact.

When connecting the Power Cord, use the following items when performing wiring. (Items are made by Phoenix Contact.)

Recommended Driver	SZF 1-0.6x3.5 (1204517)
Recommended Pin Terminals	AI 0.75-8GY (3200519) AI 1-8RD (3200030) AI 1.5-8BK (3200043) AI 2.5-8BU (3200522)
Recommended Pin Terminal Crimp Tool	CRIMPFOX ZA 3 (1201882)

■ Connecting the LT Power Cord

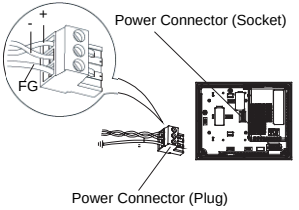
(1) Confirm that the LT unit's Power Cord is unplugged from the power supply.

(2) Strip the power cord, twist the conductor's wire ends, insert them into the pin terminal and crimp the terminal. Attach the terminal to the power connector (plug).

IMPORTANT

- Use a flat-blade screwdriver (Size 0.6 x 3.5) to tighten the terminal screws. The torque required to tighten these screws is 0.5 to 0.6 N•m [5-7Lb•In.].
- Do not solder the cable connection.

(3) Attach the Power connector (Plug) to the Power Connector.



2. Power Supply Cautions

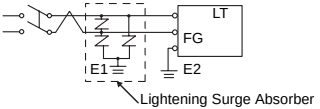
- Input and Output signal lines must be separated from the power control cables for operational circuits.
- To improve the noise resistance, be sure to twist the ends of the power cord wires before connecting them to the Power connector (Plug).
- The LT unit's power supply cord should not be bundled with or kept close to main circuit lines (high voltage, high current), or input/output signal lines.
- To reduce noise, make the power cord as short as possible.
- If the supplied voltage exceeds the LT unit's range, connect a voltage transformer.
- Between the line and the ground, be sure to use a low noise power supply. If there is an excess amount of noise, connect a noise reducing transformer.
- The temperature rating of field installed conductors: 75°C only.

IMPORTANT

- Use voltage and noise reducing transformers with capacities exceeding Power Consumption value.
- Must be used with a Class 2 Power Supply. (24VDC)
- Connect a surge absorber to handle power surges.

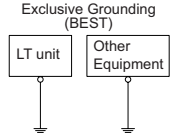
IMPORTANT

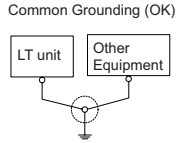
- Be sure to ground the surge absorber (E1) separately from the LT unit (E2). Select a surge absorber that has a maximum circuit voltage greater than that of the peak voltage of the power supply.

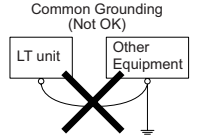


3. Grounding Cautions

- Be sure to create an exclusive ground for the Power Cord's FG terminal. Use a grounding resistance of 100Ω, a wire of $2mm^2$ or thicker, or your country's applicable standard.
- The SG (signal ground) and FG (frame ground) terminals are connected internally in the LT unit.
  When connecting the SG line to another device, be sure that the design of the system/connection does not produce a shorting loop.
- The grounding wire should have a cross sectional area greater than $2mm^2$. Create the connection point as close to the LT unit as possible, and make the wire as short, as possible. When using a long grounding wire, replace the thin wire with a thicker wire, and place it in a duct.





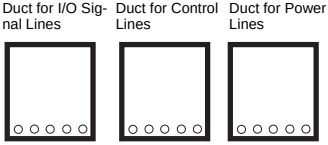


4. Input/Output Signal Line Cautions

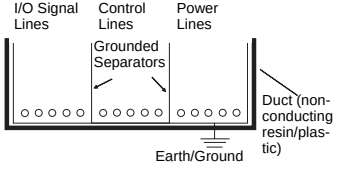
- All LT Input and Output signal lines must be separated from all operating circuit (power) cables.
- If this is not possible, use a shielded cable and ground the shield.

5. Wiring Precautions

- To help prevent noise and interference problems, separate all control, communication and power lines by placing them in a separate ducts.



If different wires must be placed in the same duct, separate them with an earthed/grounded divider.



NOTE

- If the lines cannot be separated, use shielded lines and create a ground from the shield line.

IMPORTANT

- Use noise-reducing external wiring methods to increase overall system reliability.
- To prevent power surges or noise interference, use ducts to separate all DC I/O or current circuit wires from communication cables.
- To prevent malfunctions due to noise, communication cables must be wired separately from high-frequency lines and power lines such as high-voltage lines, high-current lines, and inverters.

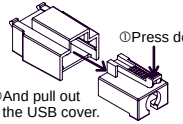
To prevent the USB cable from coming off

IMPORTANT

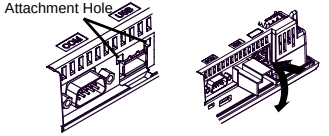
- When using USB Host Interface in Hazardous Locations provided in ANSI/ISA-12.12.01-2007, please fix the USB cable with the USB Holder. If it's not fixed so that the connector on the LT's side and the PLC's side cannot come out, the USB Host Interface cannot be used in the Hazardous Locations.

■ Attaching the USB Holder

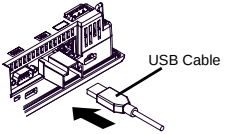
(1) Before starting the procedure, pull out the USB cover from the USB holder by holding the top and bottom of the USB holder and pressing down the tab on the USB cover.



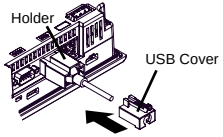
(2) With the main unit display part positioned so that it is facing down, attach the USB holder to the USB host interface. Insert the picks on the top of the USB holder into the attachment holes on the main unit, and then insert the holder into the USB host interface so that the holder is secured in the main unit.



(3) Insert the USB cable into the USB Host Interface.



(4) Attach the USB cover to the USB host interface. Hold the USB cover in the orientation shown in the figure and insert it into the USB holder.

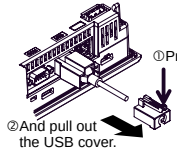


IMPORTANT

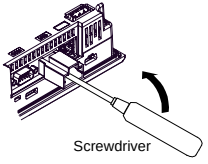
- Insert the USB cover in the orientation shown in the illustration above.

■ Removing the USB Holder

(1) Pull out the USB cover from the USB holder by pressing down the tab on the USB cover.



(2) Insert the tip of a flat-blade screwdriver into the hole on the bottom of the USB holder and raise the handle so that the USB holder detaches from the USB host interface.



UL/c-UL Approval

The following units are UL/c-UL listed products: (UL File No.E220851, UL File No.E210412)

Product Model No.	UL/c-UL Registration Model No.
LT3300-S1-D24-K	3583401-01
LT3300-S1-D24-C	3583401-02
LT3300-L1-D24-K	3583401-11
LT3300-L1-D24-C	3583401-12
LT3301-L1-D24-K	3583401-13
LT3301-L1-D24-C	3583401-14

These products conform to the following standards:

■ UL508
Industrial Control Equipment

■ ANSI/ISA-12.12.01-2007*1
Nonincendive Electrical Equipment for Use in Class I and II, Division2 and Class III, Division 1 and 2 Hazardous (classified) Locations.

■ CSA-C22.2 No.142-M1987 (c-UL Approval)
Standard for Process Control Equipment

■ CSA-C22.2 No.213-M1987 (c-UL Approval)
Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

*1 Rev.1 or later are all ANSI/ISA-12.12.01-2007 compliant.

SEE→ *Revision (page 16)*

<Cautions>
Be aware of the following items when building the LT into an end-use product:

- The LT unit's rear face is not approved as an enclosure. When building the LT unit into an end-use product, be sure to use an enclosure that satisfies standards as the end-use product's overall enclosure.
- The LT unit must be used indoors only.
- Install and operate the LT with its front panel facing outwards.
- If the LT is mounted so as to cool itself naturally, be sure to install it in a vertical panel. Also, it's recommended that the LT should

be mounted at least 100mm away from any other adjacent structures or machine parts. The temperature must be checked on the final product in which the LT is installed.

- For use on a flat surface of a Type 4X (Indoor Use Only) and / or Type 13 Enclosure.

ANSI/ISA-12.12.01-2007/CSA-C22.2, No.213 - Compliance and Handling Cautions*1

(1) Suitable for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations, or Non-Hazardous Locations only.

(2) "WARNING: Explosion hazard-substitution of components may impair suitability for Class I, Division 2", and "AVERTISSEMENT: RISQUE D'EXPLOSION-LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIAL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION2".

(3) WARNING: Explosion hazard-when in hazardous locations, turn OFF power before replacing or wiring modules.

(4) "WARNING: Explosion hazard-do not disconnect equipment unless power has been switched off or the area is known to be Non-Hazardous", and "AVERTISSEMENT: RISQUE D'EXPLOSION-AVANT DE DECONNECTER L'EQUIPEMENT, COUPER LE COURANT OU S'ASSURER QUE L'EMPLACEMENT EST DESIGNE NON DANGEREUX".

(5) In the case of use in Hazardous Locations, be sure to check that the externally connected unit and each interface have been fixed with screws and locked.
In Hazardous Locations, it's impossible to insert or pull the cable from the applicable port. Be sure to check that the location is Non-Hazardous before inserting or pulling it.

*1 Rev.1 or later are all ANSI/ISA-12.12.01-2007 compliant.

SEE→ *Revision (page 16)*

CE Marking

- The following units are CE marked products complying with the EMC Directive. These units also conform to EN55011 Class A, EN61000-6-2 directives.

LT3300-S1-D24-K	LT3300-S1-D24-C
LT3300-L1-D24-K	LT3300-L1-D24-C
LT3301-L1-D24-K	LT3301-L1-D24-C

Revision

The revision number of the LT is shown in the label affixed to the LT. In the example shown below, an asterisk "*" is displayed in the position where "A" should be, meaning "Rev. A".

Inquiry

Do you have any questions about difficulties with this product?
Please access our site anytime that you need help with a solution.

http://www.pro-face.com/otasuke/

Note

Please be aware that Digital Electronics Corporation shall not be held liable by the user for any damages, losses, or third party claims arising from the uses of this product.

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